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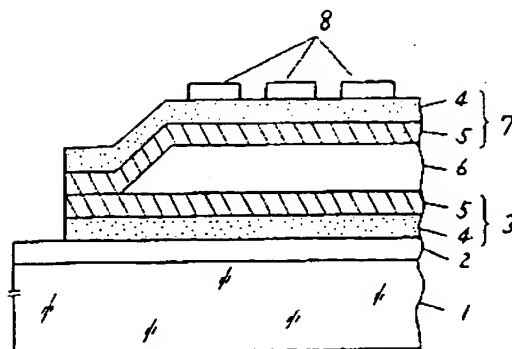
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INVENTOR : ABE ATSUSHI;

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TITLE : THIN FILM ELECTROLUMINESCENT  
ELEMENT



ABSTRACT : PURPOSE: To make such a thin film EL element that is stable in a luminous characteristic for a long period securable by forming a first dielectric layer and a second dielectric layer into a two-layer laminate compound film of  $\text{Al}_2\text{O}_3$  and  $\text{AlN}$ , setting the side contacting a phosphor layer to  $\text{AlN}$  all the time.

CONSTITUTION: In a thin film EL element made up of laminating a transparent electrode 1, a first dielectric layer 3, an EL phosphor layer 6, a second dielectric layer 7 and a back plate 8 in consecutive order, it is set down to a two-layer type compound dielectric layer of  $\text{Al}_2\text{O}_3$  and  $\text{AlN}$ , setting these first and second dielectric layers 3 and 7 to this  $\text{AlN}$  at the luminous layer 6 side. A dielectric thin film, coming into contact with the EL phosphor layer and forming an important interface, is set down to the  $\text{AlN}$ , whereby formation of a new trap level is checked, and it comes to show a stable B/V characteristic for a long period. With this constitution, such a thin film EL element that is excellent in a withstand-voltage characteristic, and very few of variations in luminous threshold value even by drive for long hours is manufacturable at good yield.

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